

NAVAL STATION NORFOLK TRANSIT EXTENSION STUDY

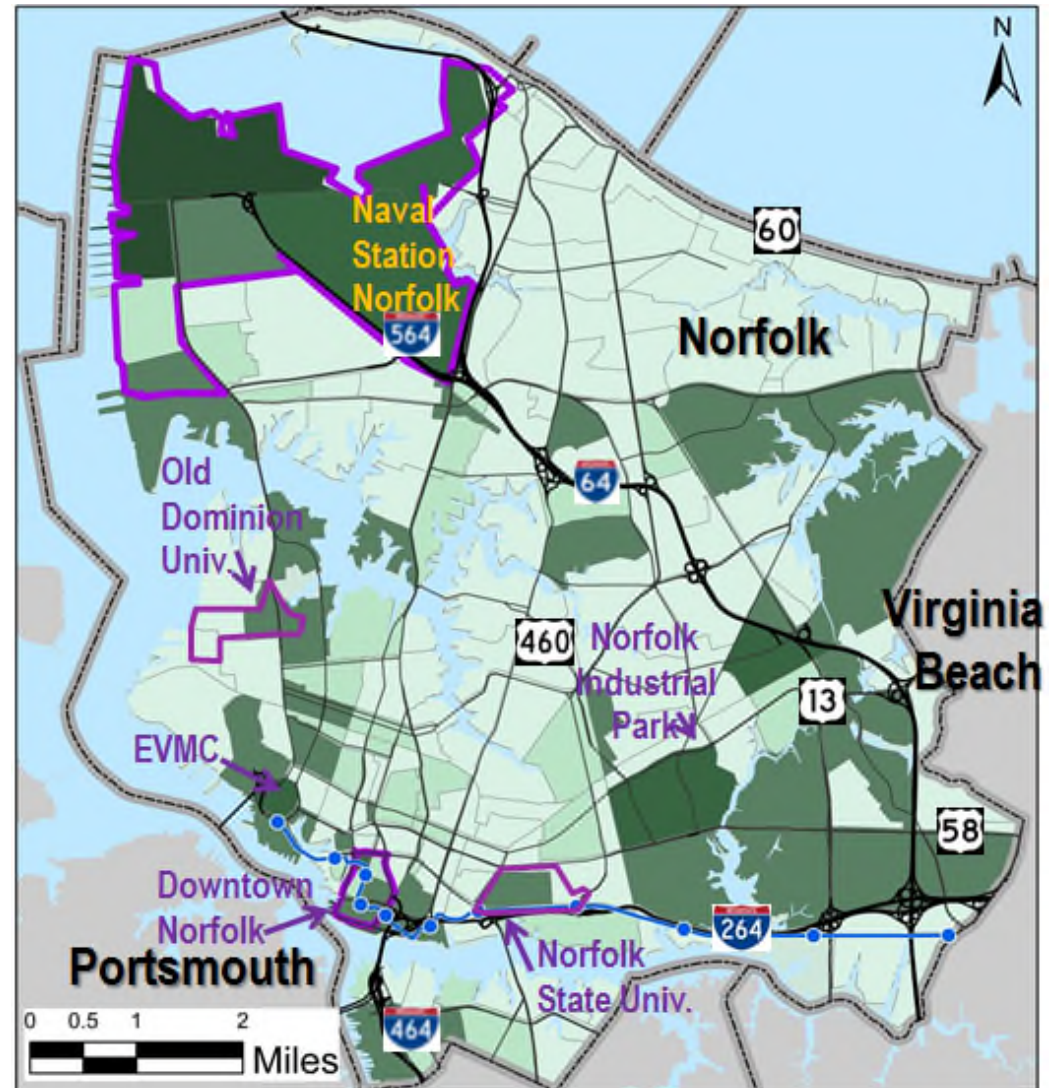
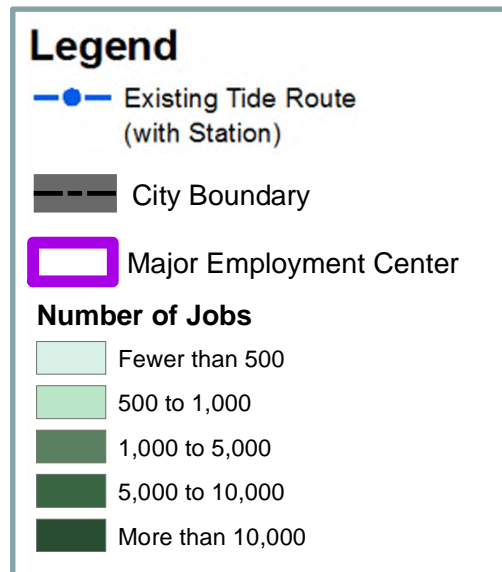
Norfolk City Council
February 25, 2014



Naval Station Norfolk Transit Extension Study

Employment by Transportation Analysis Zone (TAZ)

- Naval Station Norfolk is Hampton Roads Region's largest employer

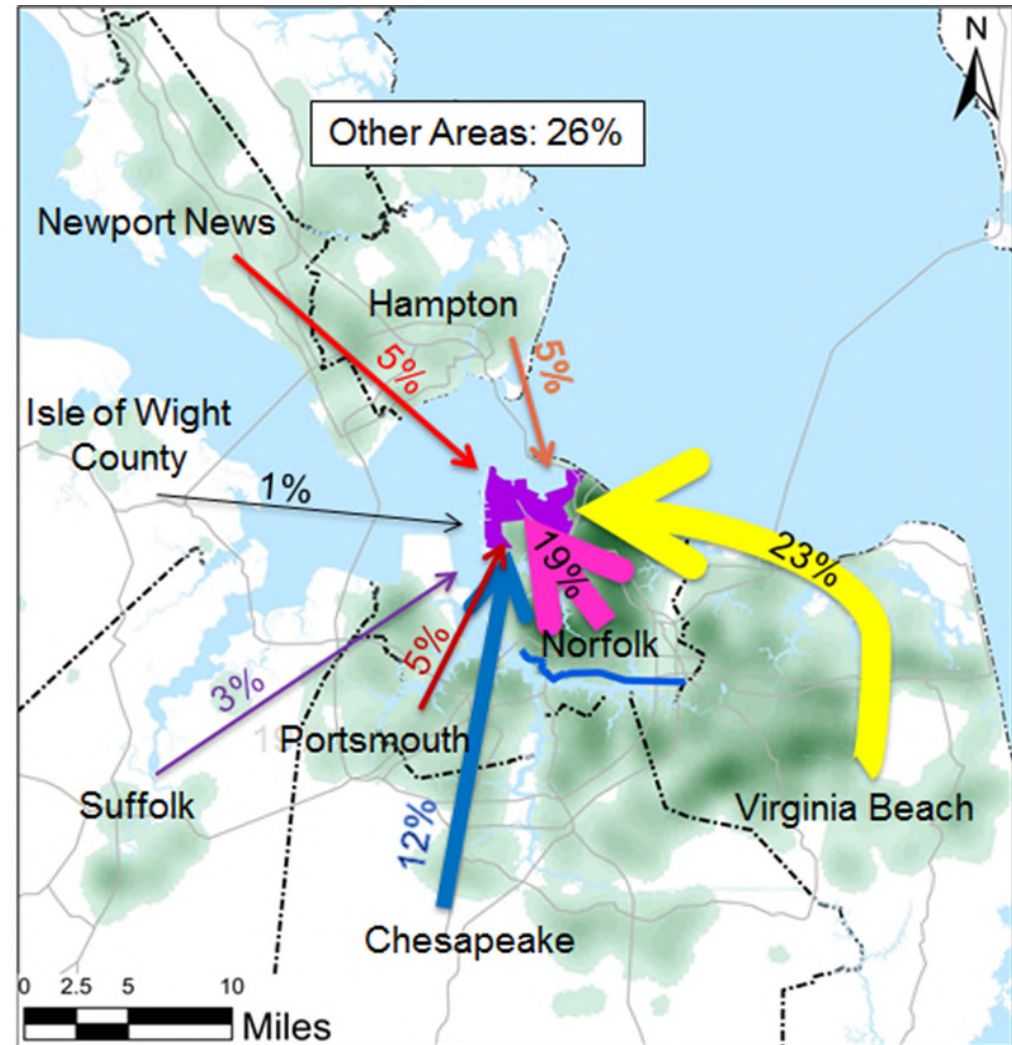
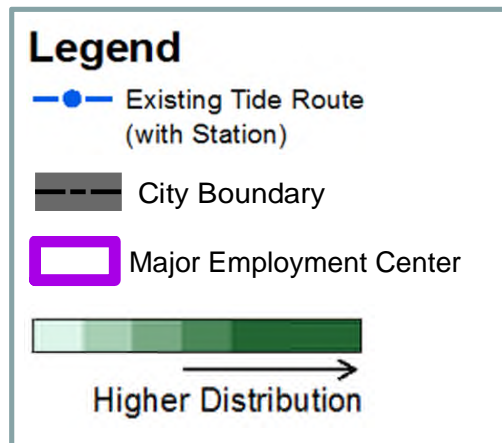


Source: U.S. Census Longitudinal Employer-Household Dynamics

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Regional Distribution of Naval Station Norfolk Employees

- Virginia Beach most represented among Hampton Roads cities (23% of NSN employees)
- Norfolk second-most represented (19%)
- Over one quarter (26%) of NSN employees live outside the Hampton Roads region

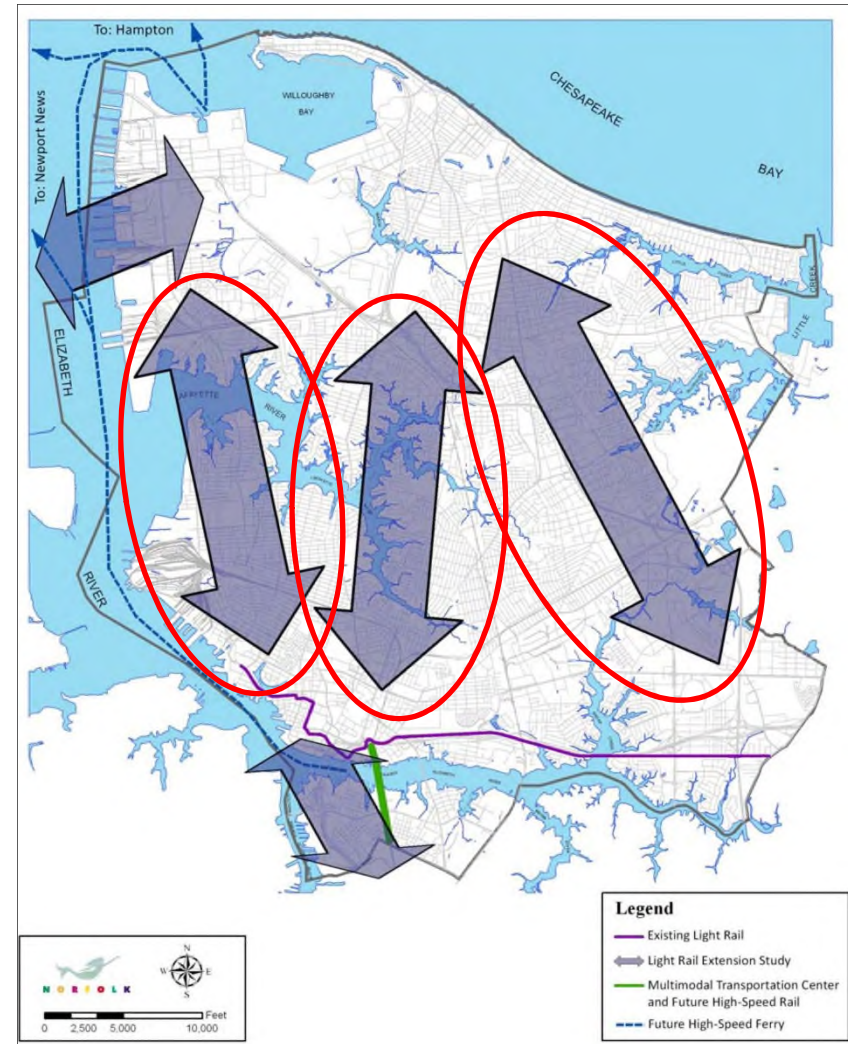


Source: U.S. Census Longitudinal Employer-Household Dynamics

Naval Station Norfolk Transit Extension Study

plaNorfolk2030 Long Range Transportation Improvements

- Most recent update of Comprehensive Plan
- Identifies project to extend the existing light rail system (Tide) to Naval Station Norfolk
- A key economic vitality issue is to improve multi-modal connections



Naval Station Norfolk **Transit Extension Study**

Current Phase

- Local Corridor Planning

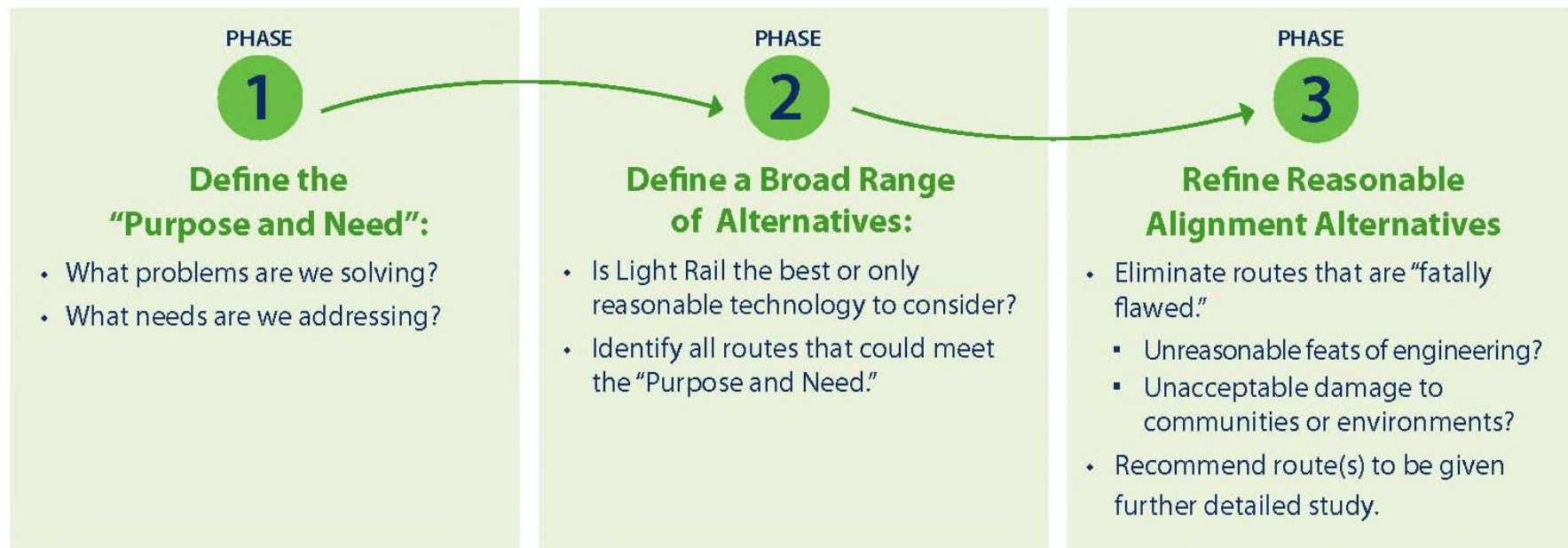
Possible Future Phase

- FTA Federal New Starts Process
 - Environmental Impact Statement / Locally Preferred Alternative
 - Engineering / Permitting
 - Full Funding Grant Agreement / Construction
- Alternative Process
 - Use of other federal funding
 - Use of all non-federal funding – All State and Local Funds
 - Public-Private Partnership



Local Corridor Planning

The study will include defining the **“Purpose and Need”** and **“Reasonable Alternatives”** for detailed analysis in a future Environmental Impact Statement compliant with the National Environmental Policy Act (NEPA) and Federal Transit Administration regulations.



Naval Station Norfolk Transit Extension Study

Public Participation

- Ongoing public review and input throughout study process
- Interactive meetings to listen to the community and to incorporate public included in every phase of the analysis
- Up-to-date Website, Newsletters, Newspaper Announcements, and Facebook and Twitter Updates
- “Open City Hall” internet forum to publicly comment and see other public comments
- Task Force and Stakeholder Meetings



NSNTES Task Force/Stakeholder Outreach

Task Force Meetings

- Southside
- Ghent
- Greater Wards Corner
- Greater Norview
- Wards Corner
- Ocean View
- Park Place
- Church Street / Huntersville

Stakeholder Meetings

- VisitNorfolk
- HRTPO/HRPDC
- Downtown Norfolk Council
- Park Place Business Association
- Hampton Roads Chamber of Commerce
- Ghent Business Association
- Five Points Partnership
- Elizabeth River Project
- Norfolk Redevelopment and Housing Authority
- Sentara Health Systems



NSNTES Navy Outreach

- Ongoing Coordination and Discussions
 - September 3, 2103
 - November 15, 2013
 - February 24, 2014



Phase 1 - June 2013

Public Outreach

Identified needs including to:

1. **Develop Transit Connections to Many Points Within Norfolk**
2. **Address Heavy Traffic and Congestion**
3. **Considerations for Future Light Rail System Expansion**
4. Reduce Travel Time
5. Increase Park and Ride Locations
6. Provide Better Interconnectivity of Transit Modes



Naval Station Norfolk Transit Extension Study

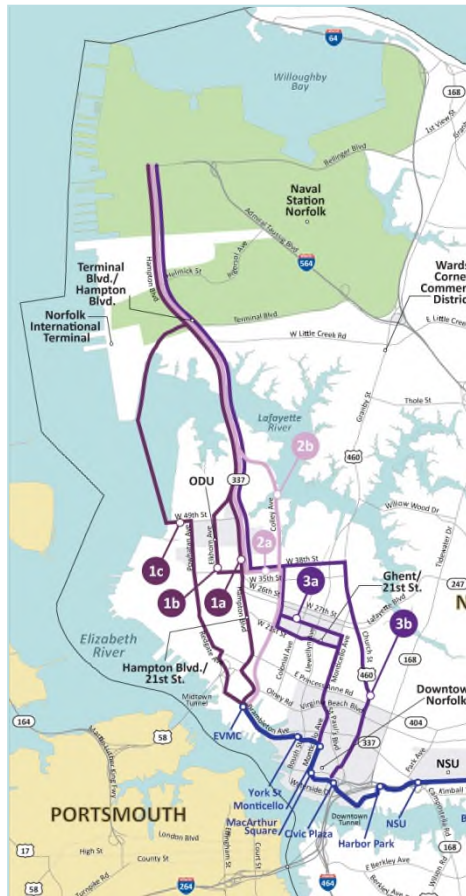
Phase 2 - September 2013 Public Outreach

- Public identification of potential activity centers and alignments
- Top activity centers
 - ODU
 - Norfolk Int'l Airport
 - Ghent/21st Street
 - Wards Corner
 - Janaf



Naval Station Norfolk Transit Extension Study

Alignment Concepts Development: Draft Alignments



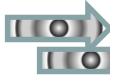
Western (7)



Central (5)



Eastern (4)



Phase 3 - February 2014 Public Outreach

- **Granby High School**
February 24, 2014
6:00 PM to 7:30 PM
- **ODU Ted Constant Convocation Center**
February 25, 2014
6:00 PM to 7:30 PM
- **Downtown Marriot**
February 26, 2014
6:00 PM to 7:30 PM



Naval Station Norfolk Conversations

- What are the funding opportunities through DOD?
- What development opportunities are there for stations at one or more of the installation gates or future gates?
- Can a Fixed-Guideway Transit System be constructed, operated, and maintained on federal properties?



NSNTES Corridor Analysis - Next Steps

Corridor Planning - Phase 3

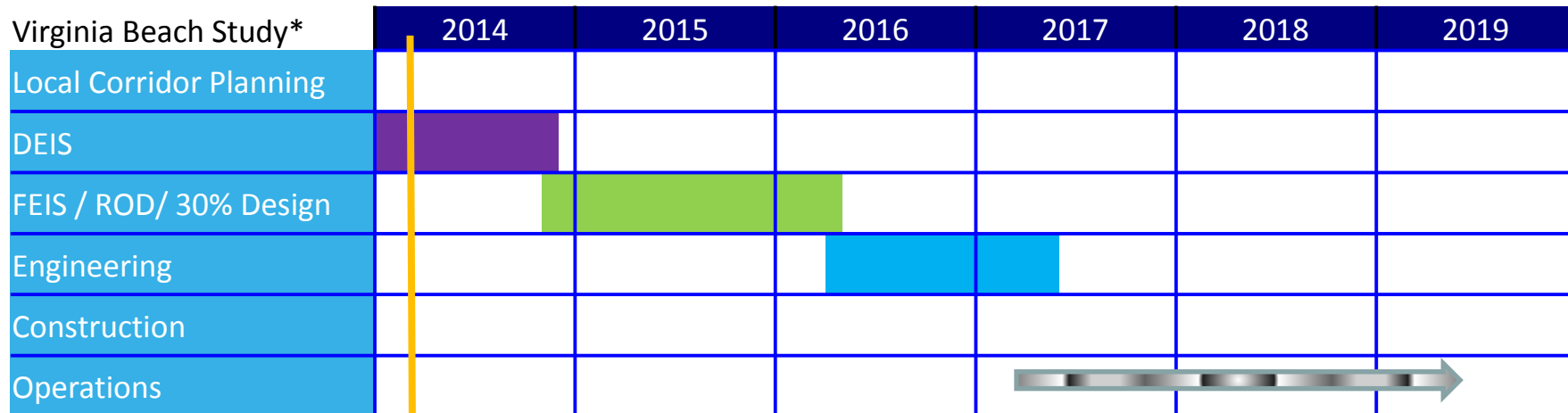
- **Public Meetings for input on weighting of alignments (February 24, 25, 26)**
- Data Analysis
- Recommendation of City Alignments for Further Study to City Norfolk Council
- Possible Recommendations of On-Installation Options for Further Study to U.S. Navy

Environmental Impact Study - Pending Funding

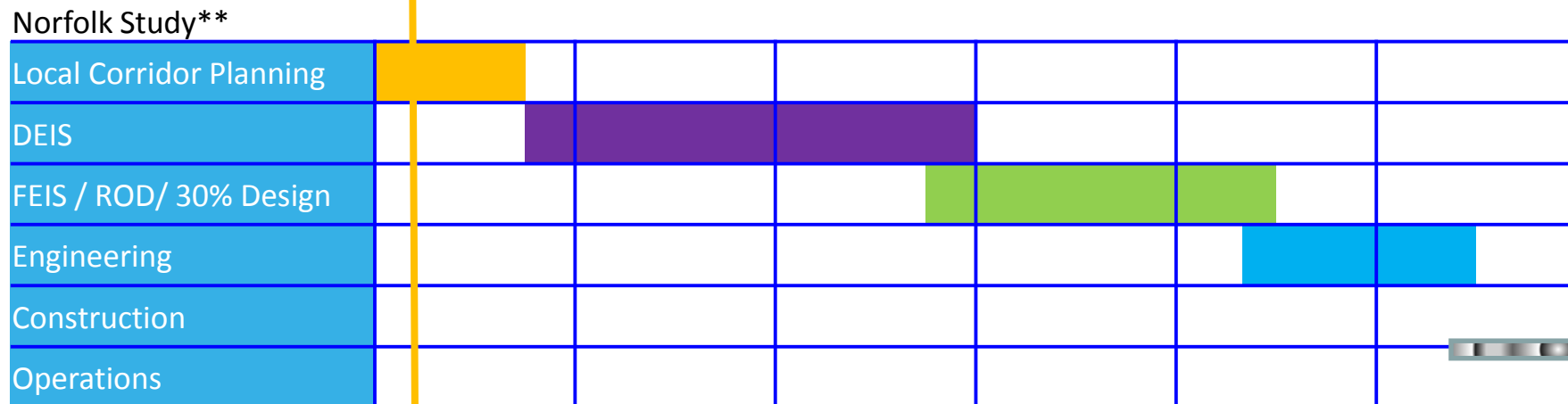
- Initiate Federal Study Process
- Multi-Year Study with Preliminary Engineering



Naval Station Norfolk Transit Extension Study



•Timing Depending on the City-Selected LPA



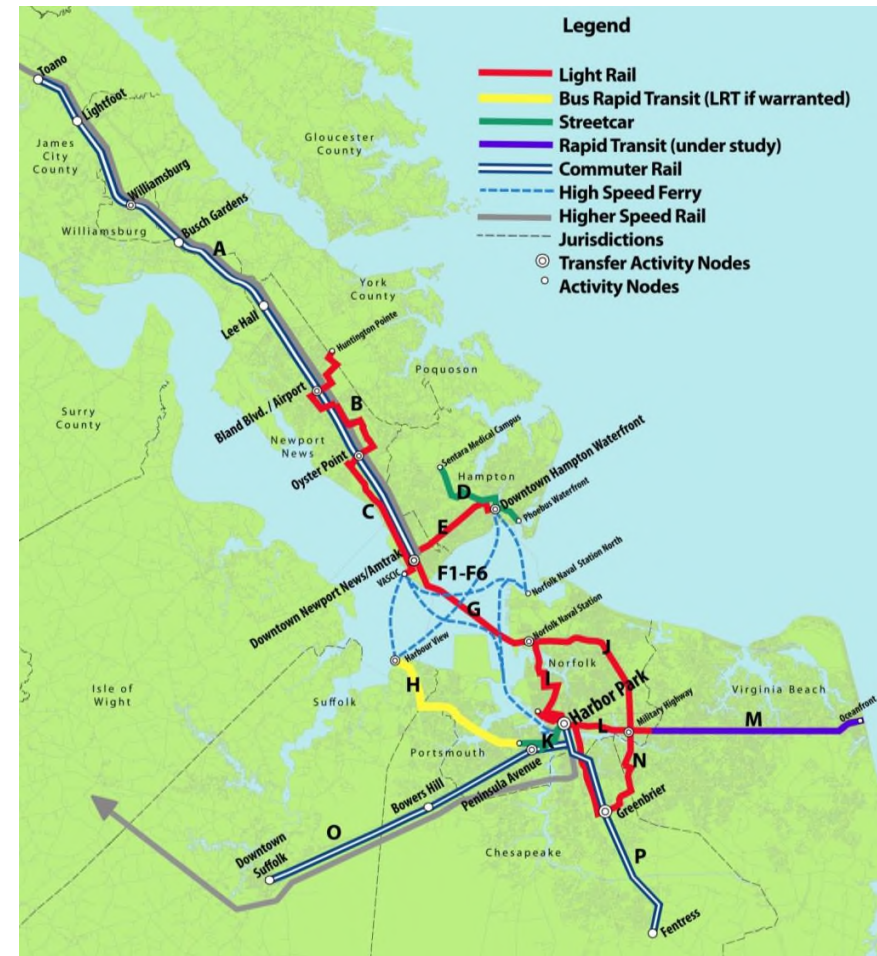
**Timing Depending on the City-Selected Alternatives for DEIS Analysis



Naval Station Norfolk Transit Extension Study

NSNTES Future Considerations

- **No Funding to Progress NSNTES**
 - Need to identify funding for DEIS/FEIS/ROD and Engineering
 - Consideration of funding options for Construction and O&M for City Alignment AND Navy Options
- **Regional System Connectivity**
 - Current Studies - Tide, VBTES, NSNTES
 - Future Studies – Peninsula, Chesapeake
 - Hampton Roads Crossing Connection
- **Regional Dedicated Transit Funding**
 - Capital Program for Fixed Guideway expansions
 - Operations and Maintenance for expanded system
 - State of Good Repair for existing system



THANK YOU





VIRGINIA BEACH TRANSIT EXTENSION STUDY



**VIRGINIA BEACH TRANSIT
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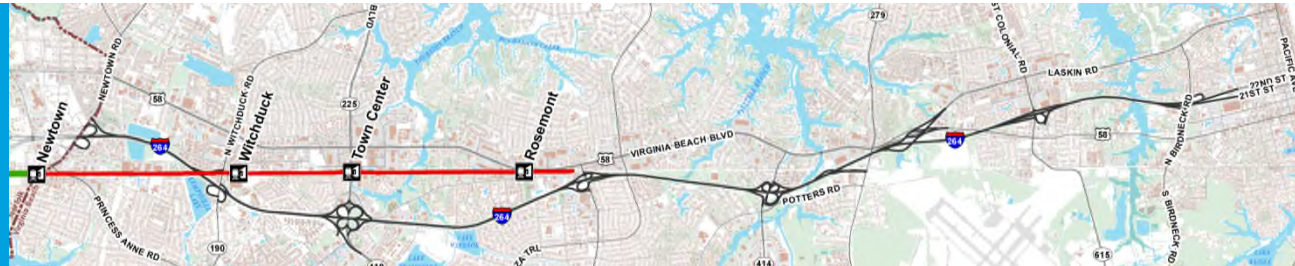


HAMPTON ROADS TRANSIT

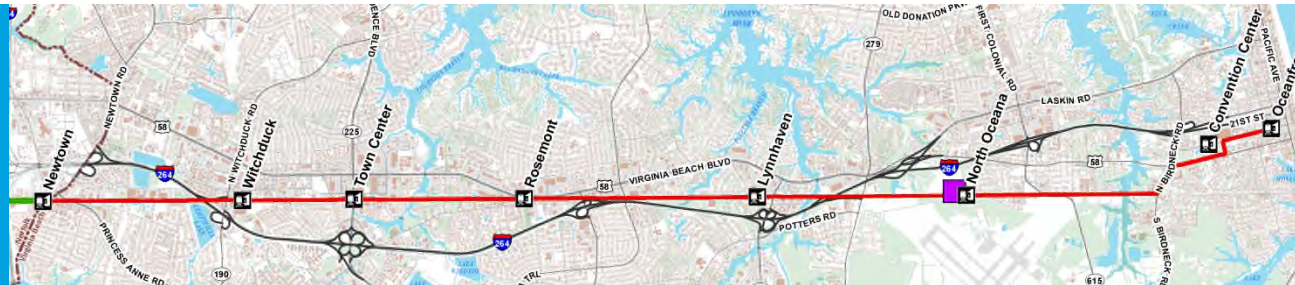
VBTES Project Description

Virginia Beach Transit Extension Study

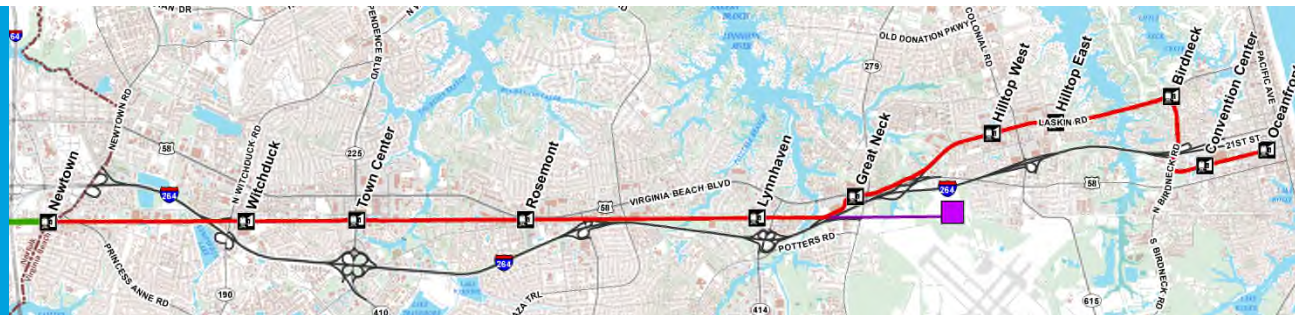
Alternative 1:
Newtown to
Rosemont
(Rosemont
Alternative)



Alternative 2:
Newtown to
Oceanfront via
NSRR ROW (NSRR
Alternative)



Alternative 3:
Newtown to
Oceanfront via
Laskin Road
(Hilltop
Alternative)



**VIRGINIA BEACH TRANSIT
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VBTES Project Description

DEIS Technology Alternatives

- Bus Rapid Transit (BRT)
- Light Rail Transit (LRT)



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Capital Costs

Estimated Capital Costs (YOE 2018)*

	Newtown Rd to the <u>Rosemont SGA</u>	Newtown Rd to the <u>Oceanfront</u>	Newtown Rd to the <u>Oceanfront</u>
	Rosemont Alt 4.8 miles	NSRR Alt 12.2 miles	Hilltop Alt 13.5 miles
LRT	<u>\$ 470 M</u> Includes \$30 million for existing ROW/City Property	<u>\$ 1,030 M</u> Includes \$52 million for existing ROW/City Property	<u>\$ 1,310 M**</u> Includes \$ 47 million for existing ROW/City Property
BRT	<u>\$ 420 M</u> Includes \$29 million for existing ROW/City Property	<u>\$ 750 M</u> Includes \$51 million for existing ROW/City Property	<u>\$ 885M**</u> Includes \$44 million for existing ROW/City Property

* Costs averaged to nearest \$5 M.

** Includes \$62M (2018\$)/\$53M(2013\$) for reconstruction of Laskin Road



**VIRGINIA BEACH TRANSIT
EXTENSION STUDY**



HAMPTON ROADS TRANSIT

Ridership Forecast

Average Weekday Boardings (2034)

Newtown Rd to the
Rosemont SGA

Town Center Alt - 4.8 miles

Newtown Rd to the
Oceanfront

NSRR Alt - 12.2 miles

Newtown Rd to the
Oceanfront

Hilltop Alt - 13.5 miles

LRT

3,370

Norfolk Only	Total System
7,180	10,550

5,295

Norfolk Only	Total System
7,535	12,830

8,845

Norfolk Only	Total System
7,820	16,665

BRT

1,980

Norfolk Only	Total System
5,820	7,800

3,365

Norfolk Only	Total System
6,155	9,520

5,690

Norfolk Only	Total System
6,245	11,935



**VIRGINIA BEACH TRANSIT
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HAMPTON ROADS TRANSIT

Ridership Forecast - Annualized

Annualized Boardings with Tourism (2034)

	Newtown Rd to the <u>Rosemont SGA</u> Town Center Alt - 4.8 miles	Newtown Rd to the <u>Oceanfront</u> NSRR Alt - 12.2 miles	Newtown Rd to the <u>Oceanfront</u> Hilltop Alt - 13.5 miles
LRT	3,261,000	4,182,000	5,330,000
BRT	2,623,000	3,580,000	4,348,000



**VIRGINIA BEACH TRANSIT
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HAMPTON ROADS TRANSIT

Operations and Maintenance Costs

Local Share - Estimated Annual O&M Costs

	Newtown Rd to the <u>Rosemont SGA</u>	Newtown Rd to the <u>Oceanfront</u>	Newtown Rd to the <u>Oceanfront</u>
	Rosemont Alt 4.8 miles	NSRR Alt 12.2 miles	Hilltop Alt 13.5 miles
LRT	<u>\$ 11.8 M</u> \$ 2.8 M LRT \$ 9.0 M Bus	<u>\$ 17.9 M</u> \$ 8.1 LRT \$ 9.8 M Bus	<u>\$ 18.1 M</u> \$ 8.3 LRT \$ 9.8 M Bus
BRT	<u>\$ 9.9 M</u> \$ 0.9 M BRT \$ 9.0 M Bus	<u>\$ 11.6 M</u> \$ 1.8 M BRT \$ 9.8 M Bus	<u>\$ 11.9 M</u> \$ 2.1 M BRT \$ 9.8 M Bus

- **Norfolk System Costs = \$ 34.5 M Total / \$ 14.2 M Local Share (2012)**
- **Norfolk Bus Costs = \$ 22.8 M Total / \$ 8.5 M Local Share (2012)**

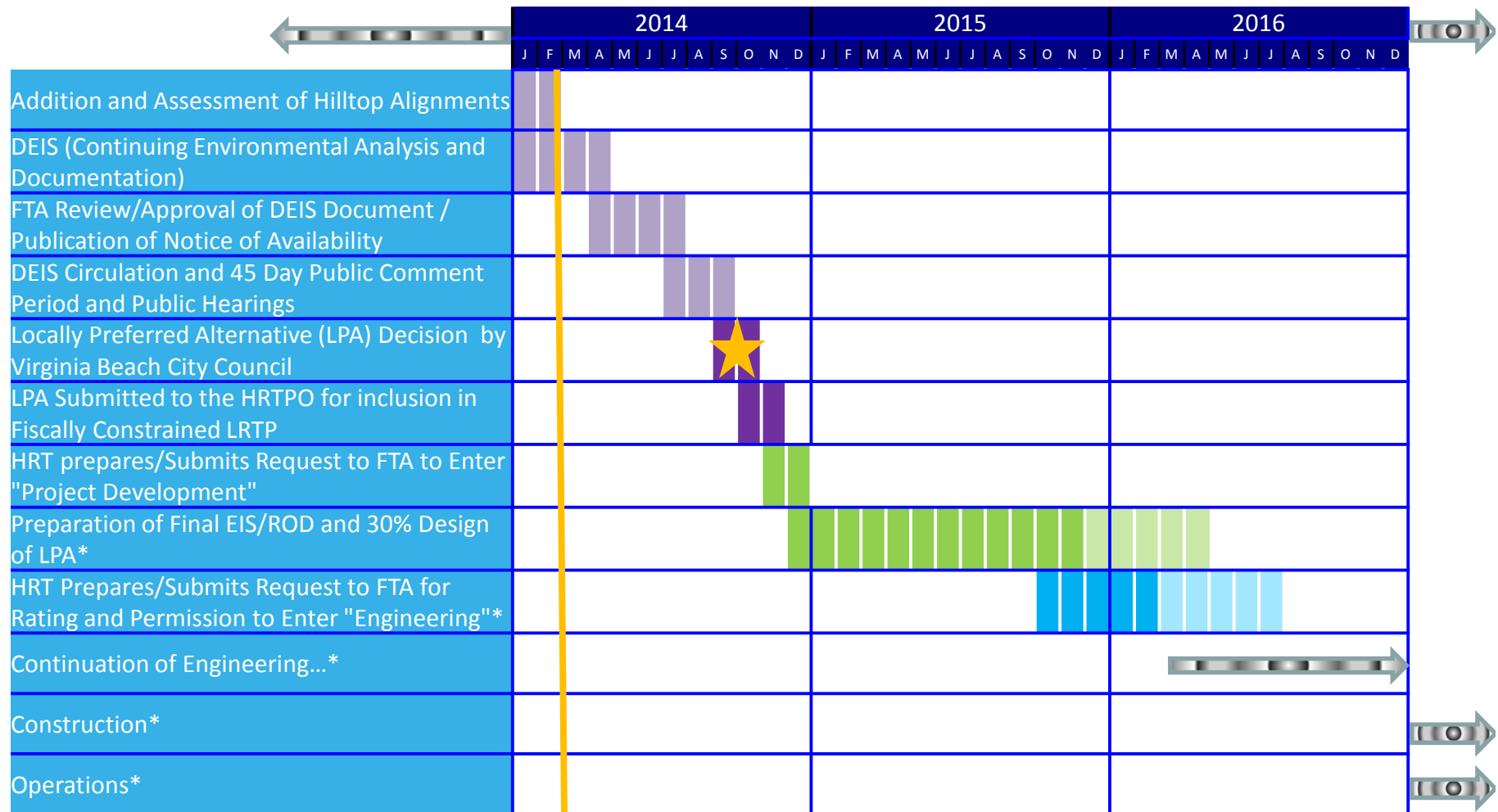


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HAMPTON ROADS TRANSIT

Virginia Beach Transit Extension Study



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HAMPTON ROADS TRANSIT

Virginia Beach Transit Extension Study

PPEA

- Three Private Proposals Submitted to the City of Virginia Beach
- City of Virginia Beach Hired Independent Consultant Firm to Evaluate Proposals
- Proposals Still under Review and Consideration
- City Staff Currently Plans to Report to City Council by Early March



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